**DAVID S. MILLER**

Manager - Geosciences and Information Technology Section
Environmental Science Division
Argonne National Laboratory

**Education:**

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| Ph.D. | The Johns Hopkins University (Geoenvironmental Engineering), 1995 |
| M.S. | The Johns Hopkins University (Environmental Engineering), 1992 |
| B.S. | The University of Hawaii (Civil Engineering), 1989 |
| B.S. | Bloomsburg University of Pennsylvania (Geology), 1983 |
| B.A. | The Pennsylvania State University (History - Honors Program), 1979 |

**Licensing and Registration:**

Registered Professional Engineer, Missouri License No. EN 029586.
Registered Professional Engineer (Environmental), Tennessee License No. 103089 (inactive).
Registered Geologist in Missouri, License No. RG0968.

**Professional Experience:**

1999-Present Environmental Engineer
Geosciences & Information Technology Section
Environmental Science Division, Argonne National Laboratory

Engages in research, assessment, and development activities designed to answer questions related to hydrologic and geologic impacts from proposed and existing federal and other environmental projects. Provides decision support to environmental restoration project teams. Key areas of support include expedited site investigations, environmental analyses and documentation, development of MARSSIM-based closure protocol, and data management and integration. Identifies situations where new inquiries and research may be required, applies advanced tools and techniques to understand and solve complex environmental problems, documents the results of technical work in reports, journals, and conference proceedings, and provides technical leadership to junior staff. Provides project management and sponsor interface services including; proposal preparation and negotiation, budget administration, sponsor/customer support, and timely delivery of high quality products.

**Summary of Previous Experience:**

1994-1999 Senior Environmental Scientist/Project Manager
Science Applications International Corporation (SAIC)

Managed a technical team of approximately 30 people and was responsible for engineering design, field investigations, and preparing documentation for environmental impact statements, remedial investigations, feasibility studies, engineering evaluation/cost analyses, and records of decision. Primary consultant for the United States Army Corps of Engineers and the Department of Energy negotiating remedies with state and federal regulators. Participated as a team member on numerous FUSRAP (Formerly Utilized Site Remedial Action Program) site activities, providing geotechnical and environmental engineering expertise. Primary participant

for DOE in St. Louis Site Remediation Task Force meetings held monthly for over two years. Lead presenter to an expert panel of hydrogeologists created to study the migration of chemicals and radionuclides in the groundwater at the St. Louis Airport FUSRAP site. Implemented expedited site characterizations at major sites in Ohio and Missouri. The expedited characterization at the Painesville, Ohio site won a 1996 DOE Pollution Prevention Award for innovative use of the Internet to compress the characterization schedule by 60% over traditional techniques.

1996-1999 Adjunct faculty and visiting professor. The University of Missouri at Rolla
Department of Geological and Petroleum Engineering

Co-taught a senior design seminar (site specific design of treatment system for uranium contaminated groundwater) and provided numerous guest lectures.

1989-1994 Doctoral Research
The John Hopkins University, Baltimore, MD

Dissertation title: "The Mechanics of Coastal Slope Failure and Retreat'" a four-year, comprehensive geotechnical field investigation of the unstable, rapidly retreating Calvert Cliffs along the western shore of the Chesapeake Bay - funded by NOAA and the Maryland Geological Survey. Major study components included wave climate, groundwater, and slope stability field investigations and analyses.

1986-1989: Gray, Hong, Bills & Assoc. Inc.
Civil/Environmental Engineers, Honolulu, HI.

Responsibilities consisted of environmental engineering projects for a variety of private and public clients.

1984-1986: U.S. Geological Survey (USGS), Project Office-Glaciology Water Resources Division (WRD), Tacoma, WA.

Conducted investigations of tidewater and alpine glaciers including; ice dynamics, glacial hydrology, aerial/surface photogrammetry, ice surface surveys and velocity measurements, and determining glacier mass balance.

**Research Interests:**

Fate and transport of contaminants in surface water and groundwater
Coastal slope stability, coastal erosion, and shoreline engineering
Policy issues related to classification and disposal of radioactive and hazardous waste.
Cold regions environmental and geotechnical engineering issues

**Professional Activities:**

Member, American Society of Civil Engineers (ASCE)
Member, The American Geophysical Union (AGU)
Member, Association of Engineering Geologists (AEG)

**Publications:**

Author/co-author of 40+ journal, report, conference publications and presentations.